

## Unit 9: Waves and Sound

### Essential questions:

- What is simple harmonic motion? Motion with a restoring force to bring something back through equilibrium. It occurs over and over in regular time intervals.
- What factors affect simple harmonic motion of a pendulum and a mass-spring system?  
 For a pendulum: length, gravity... NOT the mass of the bob  
 For a mass-spring system: k (the spring constant...how stiff the spring is), mass... NOT gravity
- What is a mechanical wave? Any wave requiring a medium for travel
- What distinguishes one mechanical wave from another? How the particles vibrate. For a transverse wave: particles vibrate perpendicular to wave motion(think doing 'the wave' in the football stadium...you stand up and down...wave moves left and right). For a longitudinal wave: particles vibrate parallel to wave motion (sound).
- How do the different characteristics used to measure waves relate to each other? Characteristics are speed ( $v$ ), frequency ( $f$ ), wavelength ( $\lambda$ ), amplitude ( $A$ ), and period ( $T$ ). Relationships:  $v = \lambda f$  and  $f = 1/T$  and  $T = 1/f$
- Why does the speed of a wave change passing from one medium to another? Because waves are a transmission of energy. That energy will travel differently in different materials. FREQUENCY NEVER CHANGES from medium to medium...so speed and wavelength change to compensate.
- What determines whether an incident wave pulse striking a boundary reflects inverted or not? It depends on the boundary. At FIXED boundaries, reflections are INVERTED. At FREE boundaries, reflections are UPRIGHT.
- How can the principle of superposition be used to describe wave interference in a variety of situations? If the waves are both on the same side of equilibrium will have constructive interference; if on opposite sides of equilibrium will have destructive interference.
- What are characteristics of a sound wave? Sound is longitudinal (like a slinky); sound needs a medium to travel, loudness is related to amplitude...or how much energy the sound wave has.
- Why does the speed of a sound wave change as it travels through different media or changes in the properties of the same media? Because waves are a transmission of energy. That energy will travel differently in different materials. FREQUENCY NEVER CHANGES from medium to medium...so speed and wavelength change to compensate.
- What is the Doppler Effect and how does it occur? A *perceptual* shift in frequency. It occurs when there is movement between the sound source and the observer. For example, a train moves toward you blowing its horn. While moving towards you, you will perceive a higher frequency that is really being emitted because the motion of the train causes the wave crests to be closer together when they arrive at your ear. The opposite is true when its moving away from you.

**Key vocabulary:** (I am giving you the shortest possible definitions here...easy to remember...mostly to jog your memory. If you need more than this...LOOK THEM UP online or in the textbook.)

Simple harmonic motion – motion repeated over and over in the same time interval due to a restoring force

Spring constant – stiffness of a spring ( $k$ )

Restoring force – for SHM brings back through equilibrium

Period – seconds per cycle/wave ( $T$ )

Frequency – waves per second ( $f$ )

Mechanical wave - requires a medium for transport (all waves are mechanical EXCEPT electromagnetic waves)

Transverse wave – particles vibrate perpendicular to wave motion (like a wave on a rope)

Longitudinal wave – particles vibrate parallel to wave motion (like a slinky)

constructive interference - waves meet and add up

destructive interference – waves meet and subtract

Doppler effect - shift in frequency because either the sound is moving or the observer is moving or both are moving

### Practice:

1. List 4 examples of systems which exhibit simple harmonic motion.
  - a) A child on a swing (is like a pendulum, right?)
  - b) A metronome (used to keep time for musicians)
  - c) A mass-spring system (like the shocks on your car)

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